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ABSTRACT

The use of Higher Education General Information Survey (HEGIS) data and a software program to compare public university expenditures is discussed. Financial expenditures at the University of North Carolina, Chapel Hill, (UNC) and other public universities were compared using 1981-1982 and 1982-1983 HEGIS data for public university members of the Association of American Universities (AAU) Data Exchange Group. For 24 universities, data are included on full- and part-time enrollments and full-time-equivalent (FTE) enrollments; expenditures for instruction, research, and public service; expenditures for specific activities; and research and instructional expenditures per full-time faculty and FTE student. The NPL Report Writer software was used with "The Chronicle of Higher Education's" machine readable data sets. The peer group consisted of the 24 institutions of the AAU data exchange group. A comparison group was constructed based on criteria such as student full-time-equivalency, faculty size, and total educational expenditures. Commands for the software program to generate different kinds of information are identified. Examples of NPL generated tables are also included. It is noted that while NPL quickly provides different categories of data, it offers virtually no statistical analysis procedures. (SW)

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USING COMPARATIVE EXPENDITURE DATA FOR INSTITUTIONAL PLANNING

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Paper presented at the Annual Conference of the Southern Association for Institutional Research, Little Rock, Arkansas, October 24-26, 1984.

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SOUTHERN ASSOCIATION FOR INSTITUTIONAL RESEARCH

This paper was presented at the 1984 Annual Conference of the Southern Association for Institutional Research held in Little Rock, Arkansas, October 24-26, 1984. It was reviewed by the SAIR Publications Committee and was judged to be of interest and pertinent to others concerned with the research in higher education. This paper has therefore been selected to be included in the ERIC collection of Conference Papers.

Richard D. Howard
President, SAIR

This paper has two purposes: 1) to present some research on financial expenditures among public institutions of higher education, and 2) to share the authors' experiences with The Chronicle of Higher Education's machine readable data sets using the NPL Report Writer software. The reader should be aware from the beginning that our coverage of both topics is far from exhaustive but that we are ready to provide more information about our experiences in these areas to anyone who might be interested.

Comparative Financial Expenditures

In order to provide support for a new planning initiative begun by the Chancellor in fall 1983, the Office of Institutional Research prepared a brief report on comparative financial expenditures among public research universities. HEGIS data from the Financial Statistics Reports for 1981-82 and 1982-83 were used for the public university members of the Association of American Universities (AAU) Data Exchange Group. These data were utilized both because this group is our normal peer group for comparative purposes and because the HEGIS financial reports were already on hand as a result of the annual data exchange. Our first efforts, then, at preparing comparative financial statistics were completely manual.

Analysis

Reviewing the data displayed in Tables I-IV, a salient feature is UNC-Chapel Hill's Public Service expenditures which are 10% over the group means for fiscal year 1982 and 1983. As an institution dedicated to serving the entire state of North Carolina, UNC-CH can take some pride in the fact that such

a large percentage of its budget is used to serve the citizens of the State. Much of this expenditure goes to the Area Health Education Centers (AHEC) located throughout the state. For instance, in the 1983 Annual Financial Report nearly two-thirds of the Extension and Public Service expenditures were for AHEC.

A second feature revealed in these tables is the primary emphasis placed on the dual missions of instruction and research in budget allocations at UNC. The Instruction percentage is slightly above the group mean while the Research percentage is only slightly below. Again, the institution can take some pride in keeping at or above the percentage mean in these important areas while making such a strong commitment in Public Service.

A third general trend is that UNC-CH spends a smaller percentage than most institutions on the ancillary areas of Academic Support, Student Services, Institutional Support, and Operation and Maintenance. UNC ties with Wisconsin for smallest percentage expended on Student Services.

In considering these findings, it is important to remember that the real significance of a given percentage is relative to the size of the institution's budget. Also, if one were to assume that UNC-CH's AHEC expenditures were a somewhat unique case, this item could be subtracted from the overall expenditures, resulting in a decrease in UNC-CH's Public Service percentage and a corresponding increase in all other categories.

Numerous other findings could be mentioned from the tables but coverage has been sufficient for our purposes in this paper. We conclude with the following points:

1) UNC has by far the greatest percentage devoted to <u>public service</u>. The magnitude of the difference could warrant further study.

1983 Mean = 6.7% UNC = 17%

1982 Mean = 7.1% UNC = 18%

This expenditure on public service is not made at the expense of instruction which is the only other category in which UNC-CH is above the group mean. Research expenditure is only slightly below the group mean.

2) UNC-CH ties with Wisconsin for lowest percentage expended on student services (1%). Wisconsin, incidentally, is in the same position on research as UNC is on public service in that Wisconsin spends a much greater percentage on research (34%) than the group mean (20%). As a contrast to UNC, Wisconsin is substantially below the group mean for instruction and public service.

The Chronicle Data

Two HEGIS data sets were purchased from The Chronicle of Higher Education Data Service - Financial Statistics 1981-82 and Library Resources 1981-82. The "all universities" data block was selected for both data sets and NPL Report Writer software was purchased, also. Generally these data require an IBM PC (or compatible machine) with 256k and two floppy disk drives which was the configuration we used.

Using NPL

There are 195 institutions in the all universities data block that we used for financial data. The first step in using these data is to determine the subset or peer group that will be studied. In our case we had a predetermined peer group that we wanted to examine - the 24 public institutions of the Association of American Universities data exchange group. The peer group was

Educational and General Expenditures By Category:

A Comparison of UNC-Chapel Hill to Universities Participating in the AAU Data Exchange

(Source: Financial Statistics Section of Higher Education General Information Survey (HEGIS XVIII))

	1983			1982		
CATEGORY	High %	Low %	UNC-CH's %	High %	Low %	UNC-CH's %
INSTRUCTION	Iowa 45%	Wisconsin 31%	41%	Oregon 46%	Wisconsin 32%	41%
RESEARCH	Wisconsin 34%	Indiana 10%	19%	Wisconsin 35%	Indiana 9%	19%
PUBLIC SERVICE	UNC-CH 17%	Colorado 1%	17%	UNC-CH 18%	Maryland .2%	18%
ACADEMIC SUPPORT	Virginia 14%	Wisc., Mich. St., Iowa St. 5%	6%	Colorado 14%	Maryland 4%	6%
STUDENT SERVICES	Colorado 7%	UNC-CH Wisconsin 1%	1%	Pitt., Ind., Mich., Kan., Md., Iowa St., Ore. 5%	UNC-CH Wisconsin 1%	1%
INSTITUTIONAL SUPPORT	Pittsburgh Penn State 9%	Iowa, Texas, Iowa St. 4%	5%	Maryland Virginia 10%	Ohio St., Iowa, Iowa St. 4%	5%
OPERATION & MAINTENANCE	Texas 15%	Washington Missouri 6%	8%	Maryland 14%	Washington 6%	7%
SCHOLARSHIPS (unrestricted)	Indiana 6%	Colorado Purdue 0%	1%	Indiana 5%	Colorado 0%	1%
SCHOLARSHIPS (restricted)	Oregon 8%	Illinois 1%	3%	Colorado 6%	Pitt., Minn., Ill., Neb., Kan. 1%	2%

Table I

Table II

PERCENTAGE EXPENDITURE GROUP MEANS COMPARED TO UNC-CHAPEL HILL

Category	1983 Mean	UNC (1983)	1982 Mean	UNC (1982)
Instruction	38.6%	41%	39.4%	41%
Research	20.2%	19%	19.8%	19%
Public Service	6.7%	17%	7.1%	18%
Academic Support	8.8%	6%	8.9%	6%
Student Services	3.6%	1%	3.6%	1%
Institutional Support	6.9%	5%	6.8%	5%
Operation & Maintenance	9.6%	8%	9.3%	7%
Scholarships (unrestricted)	1.7%	1%	1.7%	1%
Scholarships (restricted)	3.7%	3%	2.7%	2%

Source: HEGIS Financial Statistics Report
Prepared by: Office for Institutional Research
June 22, 1984

BUDGET EXPENDITURES AT PUBLIC AAU INSTITUTIONS FOR 1982-83

Category	Penn. State	Missouri	Iowa St.	Nebraska	Michigan	Indiana	Michigan State	Purdue	Oregon	Maryland	Pitts.	Minn.	Kansas
Instru.	109,757	81,079	73,334	50,868	179,940	84,586	136,493	108,564	38,136	92,938	103,442	199,098	52,642
	36%	43%	36%	32%	38%	41%	42%	40%	43%	36%	41%	38%	43%
Research	56,712	32,942	47,109	33,584	103,185	19,815	60,685	62,387	9,985	61,560	40,786	104,721	17,965
	19%	18%	23%	21%	22%	10%	19%	23%	11%	24%	16%	20%	15%
Pub.Ser.	26,880	14,778	22,984	22,953	8,878	5,543	38,825	27,803	6,042	14,091	9,052	49,835	4,878
	9%	8%	11%	15%	2%	3%	12%	10%	7%	5%	4%	10%	4%
Acad. Sup.	31,078	19,518	10,960	12,040	41,181	23,188	15,407	17,724	9,753	16,674	20,198	45,226	12,961
	10%	10%	5%	8%	9%	11%	5%	6%	11%	6%	10%	8%	11%
Stu. Ser.	11,931	7,898	8,190	3,522	23,262	10,807	10,250	6,656	4,467	11,444	11,948	18,491	6,422
	4%	4%	4%	2%	5%	5%	3%	2%	5%	4%	5%	4%	5%
Inst. Sup.	26,823	12,612	7,532	9,348	29,309	13,901	20,261	15,088	6,022	21,307	21,526	38,788	7,589
	9%	7%	4%	6%	6%	7%	6%	5%	7%	8%	9%	7%	6%
Oper. & Maint.	23,657	10,858	23,656	13,094	52,136	27,014	24,606	25,848	6,835	28,185	22,978	44,854	14,499
	8%	6%	12%	8%	11%	13%	8%	9%	8%	11%	9%	9%	12%
Schol.	1,411	1,425	3,518	4,432	15,397	11,958	9,108	-0-	201	4,179	6,783	6,976	1,131
(unrest.)	.5%	.8%	2%	3%	3%	6%	2%	0%	.2%	2%	3%	1%	1%
Schol.	13,561	5,922	5,993	6,422	19,767	10,349	11,243	10,610	6,922	7,939	7,912	14,114	3,949
(rest.)	4%	3%	3%	4%	4%	5%	3%	4%	8%	3%	3%	3%	3%
Transf.	883	375	-0-	839	1,611	35	1,242	87	-0-	20	1,689	2,104	3
	.2%	.2%	0%	.5%	.3%	.02%	.4%	.03%	0%	.01%	.7%	.4%	.003%
TOTAL	302,492	187,208	204,276	157,106	474,788	207,177	326,918	274,787	88,364	258,007	252,213	523,987	121,637
	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

(For dollar amounts in the first line of each category, add 000.)

Table III

BUDGET EXPENDITURES AT PUBLIC AAU INSTITUTIONS FOR 1982-83 (cont.)

Category	Wash.	Illinois	Texas	Virginia	Wisc.	Colorado	Iowa	UNC
Instru.	147,345	214,013	130,793	71,325	140,472	54,778	109,088	126,507
	37%	35%	34%	41%	31%	37%	45%	41%
Research	122,070	121,001	91,289	31,152	151,141	30,584	38,224	57,638
	31%	20%	24%	18%	34%	21%	16%	19%
Pub.Ser.	7,612	60,729	7,983	3,195	8,601	1,309	11,791	51,338
	2%	10%	2%	2%	2%	1%	5%	17%
Acad.Sup.	34,489	72,918	28,435	24,012	23,724	15,571	23,269	17,632
	9%	12%	7%	14%	5%	11%	10%	6%
Stu.Ser.	8,435	9,893	12,114	6,777	8,189	10,821	10,902	3,908
	2%	2%	3%	4%	1%	7%	4%	1%
Inst.Sup.	30,095	38,975	15,888	12,335	21,184	11,809	9,373	14,507
	8%	6%	4%	7%	5%	8%	4%	5%
Oper. & Maint.	23,917	69,047	57,063	13,330	52,318	11,152	23,279	23,539
	6%	11%	15%	8%	12%	8%	10%	8%
Schol. (unrest.)	3,782	15,567	8,123	1,895	8,013	-0-	4,051	2,040
	1%	3%	2%	1%	2%	0%	2%	1%
Schol. (rest.)	18,595	7,234	8,949	9,065	15,461	7,763	10,053	9,141
	5%	1%	2%	5%	3%	5%	4%	3%
Transf.	13	7,232	23,884	56	20,529	2,790	2,831	130
	.003%	1%	6%	.03%	5%	2%	1%	.04%
TOTAL	394,333	616,411	384,061	173,143	448,641	146,577	242,962	306,380
	100%	100%	100%	100%	100%	100%	100%	100%

Source: HEGIS Financial Statistics Report
Prepared by: Office for Institutional Research
July 1, 1984

Table III (cont.)

BUDGET EXPENDITURES AT PUBLIC AAU INSTITUTIONS FOR 1981-82

Category	Wash.	Kansas	Virg.	Miss.	Penn. State	Colo.	Oregon	Wisc.	Iowa St.	Minn.
Inst.	140,462	49,583	80,847	75,901	98,575	46,943	37,099	130,987	62,346	192,442
	37%	43%	38%	43%	37%	36%	46%	32%	36%	38%
Research	119,123	18,292	28,796	30,145	50,719	27,436	9,659	145,545	41,042	103,618
	32%	16%	18%	17%	19%	21%	12%	35%	23%	21%
Pub.Serv.	7,228	4,725	4,380	14,318	24,450	2,640	5,519	8,002	20,008	46,661
	2%	4%	3%	8%	9%	2%	7%	2%	11%	9%
Acad.Sup.	32,210	12,411	20,977	17,454	27,098	18,770	9,134	21,799	9,900	42,256
	9%	11%	13%	10%	10%	14%	11%	5%	6%	8%
Stu. Ser.	8,159	6,314	6,251	8,826	10,990	5,383	4,131	5,628	8,908	19,924
	2%	5%	4%	4%	4%	4%	5%	1%	5%	4%
Inst. Sup.	30,675	7,512	15,367	11,189	24,999	11,761	5,784	19,012	6,792	40,616
	8%	6%	10%	6%	9%	9%	7%	5%	4%	8%
Oper. & Maint.	22,874	14,203	13,281	11,448	21,447	10,054	6,104	47,167	18,822	41,682
	6%	12%	8%	7%	8%	8%	8%	11%	11%	8%
Schol. (unrest.)	2,323	1,143	1,638	1,223	1,386	-0-	300	8,544	2,790	3,598
	.6%	1%	1%	1%	.5%	0%	.4%	2%	2%	.7%
Schol. (rest.)	14,450	1,611	8,434	5,721	5,841	8,132	2,855	8,975	5,302	6,186
	4%	1%	5%	3%	2%	6%	4%	2%	3%	1%
Transfers	15	21	37	341	1,074	21	-0-	16,068	-0-	3,602
	.004%	.02%	.02%	.2%	.4%	.02%	0%	4%	0%	.7%
TOTAL	375,525	115,814	159,988	174,566	266,578	131,120	80,586	411,728	175,010	500,586
	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

(For dollar amounts in the first line of each category, add 000.)

BUDGET EXPENDITURES AT PUBLIC AAU INSTITUTIONS FOR 1981-82

Category	Ohio	Mich.	Iowa	Mary.	Purdue	Ill.	Mich.	Neb.	Pitts.	Ind.	Chapel Hill
Inst.	165,178	170,125	94,261	77,572	100,870	198,544	133,109	49,818	95,295	86,250	119,731
	45%	38%	45%	39%	40%	34%	42%	33%	41%	43%	41%
Research	48,821	99,874	34,867	44,861	58,716	116,103	57,879	33,744	38,340	18,944	56,529
	13%	22%	17%	22%	23%	20%	18%	22%	17%	9%	19%
Pub.Serv.	44,840	8,172	11,924	313	26,253	58,032	39,141	22,085	10,211	5,354	52,172
	12%	2%	6%	.2%	10%	10%	12%	15%	4%	3%	18%
Acad.Sup.	35,815	38,304	19,813	8,547	13,394	77,417	15,141	12,427	25,109	22,416	18,506
	10%	8%	9%	4%	5%	13%	5%	8%	11%	11%	6%
Stu. Ser.	12,788	20,272	9,203	10,154	5,082	11,384	9,516	3,153	11,408	10,081	3,598
	4%	5%	4%	5%	2%	2%	3%	2%	5%	5%	1%
Inst.Sup.	15,899	29,717	7,514	20,672	14,045	42,591	19,188	9,438	19,847	14,651	13,657
	4%	7%	4%	10%	6%	7%	6%	6%	9%	7%	5%
Oper. & Maint.	29,234	47,104	19,686	27,351	25,531	63,034	25,147	13,112	21,718	23,739	21,960
	8%	11%	9%	14%	10%	11%	8%	9%	9%	12%	7%
Schol. (unrest.)	5,364	18,438	3,277	5,612	2,501	11,035	7,899	3,872	6,094	9,233	1,900
	1%	4%	2%	3%	1%	2%	2%	3%	3%	5%	1%
Schol. (rest.)	6,088	18,702	6,277	5,783	4,055	6,848	11,521	1,915	3,123	10,067	6,841
	2%	4%	3%	3%	2%	1%	4%	1%	1%	5%	2%
Transfers	777	1,859	2,670	-0-	87	1,168	558	803	440	97	141
	.2%	.4%	1%	0%	.03%	.2%	.2%	.5%	.2%	.04%	.05%
TOTAL	364,053	449,567	209,490	200,865	250,334	587,155	318,898	150,466	231,585	200,832	295,034
	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Source: HEGIS Financial Statistics Report
Prepared by: Office for Institutional Research
July 2, 1984

Table IV (cont.)

assembled by using the NPL "Select" command and giving the FICE codes of the relevant institutions:

SELECT F1 = 002974 006965...001892

For the remainder of the session, all requests will generate data only from those institutions unless others are specifically requested.

Perhaps the researcher is not sure which institutions should be in a comparison group, in which case a group can be constructed based upon various criteria such as student FTE, faculty size, and total educational expenditures. For instance the command-

PRINT F2 F1 IF F18 IS 5000 TO 10000

will generate a list of all universities and their FICE codes from the data block which have an FTE enrollment within the specified range.

After the comparison group is specified, queries may be made concerning variables across the entire group or for one institution. The statement-

PRINT F50 F51 F52 BY F2

will produce a list of the university names with columns of expenditures for instruction, research, and public service.

Care should be taken that no more variables are requested in one command than can be printed conveniently across one page. Otherwise, the information will "wrap around" in a confusing fashion. (We have lots of examples of this if anyone wants a sheet or two.)

Various descriptive information can be generated based upon the raw data provided. If one wants to know what the average expenditures are for instruction, research, and public service, for instance, the command would be-

WRITE AVG.F50 AVG.F51 AVG.F52 BY F2

If one wanted the averages for all expenditure categories on the HEGIS financial statistics form (variables F50 to F68 on the data block), it would be

nice if they all could be requested in one command, but again the "wrap around" problem precludes this. Thus, our experience was that we had to produce several pages with a single line of data on each page at the top. While it may be possible to avoid "data wrap", we were unable to uncover the solution easily.

There was some descriptive information which we had difficulty obtaining. For instance, we wanted to get the minimum and maximum expenditures for the various categories. The command -

```
WRITE MIN.F50   MAX.F50  BY  F2
```

should have generated the range for instructional expenditures but we were unable to produce the names of the corresponding institutions with the "BY F2" statement, which limited the usefulness of the information. (There are other ways to obtain this information, of course, such as by visually inspecting a list of the peer group and their expenditures for that category.)

A further level of sophistication comes in creating new variables and computing with them. If one wanted to find the average instructional expenditure per faculty member and FTE student, the command would be -

```
PRINT COMPUTE PERFACULTY = F50/(F15 + F16)
COMPUTE PERSTUDENT = F50/F18  BY  F2
```

In this command male and female faculty (F15 + F16) were combined, then instructional expenditures (F50) were divided by the faculty total and the student FTE (F18) to create two new variables called "PERFACULTY" and "PERSTUDENT".

In another computation example, the command to produce the average percentage of total expenditures made for research would be -

```
SUM F51 F61 AND COMPUTE AVGPERCENT = F51/F61
```

One should note that there are some discrepancies in financial expenditure figures between those provided to us in the AAU data exchange via hard copy HEGIS reports and the figures provided by the Chronicle Data Service. For 21 institutions for which we have AAU exchange data for 1981-82, for instance, there are four discrepancies in research expenditures as follows:

Institution	AAU exchange*	Chronicle data*
Missouri-Columbia	$ 30,145,000	$ 31,595,000
Univ. of Washington	119,123,000	118,196,000
Illinois-Urbana	89,300,000	90,238,000
Colorado-Boulder	27,436,000	27,594,000

*(rounded to thousands)

Numerous examples of NPL generated tables follow and demonstrate our experience with the software and data sets. In general we have been pleased with The Chronicle data sets but less pleased with NPL. The data are easy to use, are relatively free from error (ignoring the overall problems with errors in any national data sets), and are complemented with extra data (student body and faculty headcount and FTE, for example) on each diskette. One not so minor problem is the long time delay until the data are available (1981-82 is still the most recent year).

NPL does what its billing suggests - a report writer - and fairly easily at that as we could get numbers out within the first hour of use. But, and this is a significant "but" for institutional researchers, NPL offers virtually no statistical analysis procedures and even limited description analysis possibilities. Having been spoiled by SPSS and SAS on our mainframes, NPL on a PC suffers in comparison. We are getting the version of SPSS which runs on a micro for the new IBM AT we have ordered and will be interested to see how this configuration measures up.

Summary and Conclusions

Comparative financial expenditure data offer a multitude of opportunities to institutional researchers, and The Chronicle data sets provide a worthwhile way to get national data in an easy to use fashion. The usual complaints about HEGIS or any national data still apply, however, and one needs to be aware of these possible sources of error in the data. NPL software provides a viable tool for the unsophisticated researcher, but anyone with experience using canned statistical packages will be dissatisfied with the possibilities available.

Full-Time, Part-Time, and FTE Enrollments

INSTITUTION	FT HEADCOUNT	PT HEADCOUNT	1981 FTE
INDIANA U BLOOMINGTON	27,346	5,365	28,741
IOWA STATE U SCI & TECHN	22,127	3,206	22,262
MICHIGAN STATE UNIVERSITY	34,175	8,555	38,538
OHIO STATE U MAIN CAMPUS	43,151	10,287	48,190
PA STATE U MAIN CAMPUS	31,633	4,529	33,446
PURDUE U MAIN CAMPUS	28,840	3,795	30,408
U MICHIGAN-ANN ARBOR	30,836	4,236	32,685
U OF CAL-BERKELEY	26,900	2,396	28,802
U OF CAL-LOS ANGELES	31,886	2,682	32,677
U OF COLORADO AT BOULDER	19,686	2,491	20,745
U OF ILL URBANA CAMPUS	31,415	3,499	32,872
U OF KANSAS MAIN CAMPUS	18,222	6,178	20,090
U OF MD COLLEGE PARK CAM	27,121	9,925	30,914
U OF MINN MNPLS SNT PAUL	39,465	25,050	48,168
U OF MISSOURI-COLUMBIA	20,832	3,931	22,477
U OF NC AT CHAPEL HILL	18,599	3,472	19,363
U OF NEBRASKA-LINCOLN	19,576	5,499	21,090
U OF OREGON MAIN CAMPUS	13,226	2,179	15,187
U OF PITTSBG MAIN CAMPUS	17,225	12,133	21,228
U OF TEXAS AT AUSTIN	42,181	5,858	44,163
U OF VIRGINIA MAIN CAMPUS	15,499	1,619	15,759
U OF WISCONSIN MADISON	35,246	6,984	37,260
UNIVERSITY OF IOWA	22,140	6,808	23,150
UNIVERSITY OF WASHINGTON	26,510	7,958	29,712

Budget Expenditures at Public AAU Institutions for 1981-82

INSTITUTION	INSTRUCTION	RESEARCH	PUBLIC SERV
INDIANA U BLOOMINGTON	86,250,361	18,944,232	5,353,769
IOWA STATE U SCI & TECHN	62,345,535	41,042,215	20,007,931
MICHIGAN STATE UNIVERSITY	133,108,720	57,879,304	39,140,584
OHIO STATE U MAIN CAMPUS	165,177,565	48,620,522	44,640,079
PA STATE U MAIN CAMPUS	98,574,751	50,719,264	24,449,984
PURDUE U MAIN CAMPUS	100,669,919	58,716,355	26,252,690
U MICHIGAN-ANN ARBOR	156,514,778	99,874,171	7,027,694
U OF CAL-BERKELEY	138,886,045	90,219,567	23,339,838
U OF CAL-LOS ANGELES	212,170,941	110,355,002	22,166,861
U OF COLORADO AT BOULDER	51,694,259	27,594,032	2,657,144
U OF ILL URBANA CAMPUS	101,326,891	90,237,739	38,235,539
U OF KANSAS MAIN CAMPUS	49,582,696	18,292,124	4,725,040
U OF MD COLLEGE PARK CAM	77,572,018	44,860,922	312,502
U OF MINN MNPLS SNT PAUL	192,442,210	103,617,610	46,661,468
U OF MISSOURI-COLUMBIA	75,914,837	31,595,495	20,264,284
U OF NC AT CHAPEL HILL	119,731,369	56,529,407	52,171,619
U OF NEBRASKA-LINCOLN	49,917,707	33,743,959	22,085,411
U OF OREGON MAIN CAMPUS	37,098,897	9,659,307	5,518,762
U OF PITTSBG MAIN CAMPUS	95,294,737	38,340,095	10,211,192
U OF TEXAS AT AUSTIN	119,347,034	76,863,550	10,059,978
U OF VIRGINIA MAIN CAMPUS	60,846,869	28,795,518	4,360,132
U OF WISCONSIN MADISON	130,986,641	145,545,387	8,002,127
UNIVERSITY OF IOWA	94,261,346	34,867,203	11,924,060
UNIVERSITY OF WASHINGTON	144,208,416	118,195,968	6,896,736

INSTITUTION	ACAD SUPPORT	INCLUDES LIB	STUDENT SERV
INDIANA U BLOOMINGTON	22,415,724	9,134,181	10,080,853
IOWA STATE U SCI & TECHN	9,899,997	5,539,633	8,008,430
MICHIGAN STATE UNIVERSITY	15,140,974	6,125,917	9,515,778
OHIO STATE U MAIN CAMPUS	35,915,367	10,652,252	12,786,213
PA STATE U MAIN CAMPUS	27,095,535	7,405,185	10,990,458
PURDUE U MAIN CAMPUS	13,394,482	6,164,750	5,082,155
U MICHIGAN-ANN ARBOR	33,037,070	11,963,538	17,434,214
U OF CAL-BERKELEY	35,645,441	20,213,172	23,805,050
U OF CAL-LOS ANGELES	78,876,126	20,031,044	23,571,132
U OF COLORADO AT BOULDER	15,099,978	5,098,371	5,366,413
U OF ILL URBANA CAMPUS	44,113,467	11,685,498	6,275,577
U OF KANSAS MAIN CAMPUS	12,410,951	6,387,455	6,314,032
U OF MD COLLEGE PARK CAM	8,547,477	6,722,941	10,154,150
U OF MINN MNPLS SNT PAUL	42,255,675	12,644,862	19,924,095
U OF MISSOURI-COLUMBIA	19,640,739	5,396,667	6,907,245
U OF NC AT CHAPEL HILL	18,506,037	10,284,105	3,598,129
U OF NEBRASKA-LINCOLN	12,426,597	4,656,470	3,152,606
U OF OREGON MAIN CAMPUS	9,134,370	4,879,353	4,131,176
U OF PITTSBG MAIN CAMPUS	25,108,682	7,564,677	11,408,155
U OF TEXAS AT AUSTIN	26,280,623	10,372,515	11,401,835
U OF VIRGINIA MAIN CAMPUS	20,976,889	8,682,418	6,250,894
U OF WISCONSIN MADISON	21,798,913	12,289,341	5,627,919
UNIVERSITY OF IOWA	19,812,534	7,136,836	9,202,673
UNIVERSITY OF WASHINGTON	35,591,424	11,563,200	6,544,032

INSTITUTION	INST SUPPORT	OPER/MAINT	UR AWARDS
INDIANA U BLOOMINGTON	14,650,508	23,739,411	9,232,652
IOWA STATE U SCI & TECHN	6,791,802	18,822,309	2,789,927
MICHIGAN STATE UNIVERSITY	19,188,004	25,146,544	7,698,689
OHIO STATE U MAIN CAMPUS	15,899,331	29,233,728	5,364,159
PA STATE U MAIN CAMPUS	24,999,261	21,446,981	1,386,455
PURDUE U MAIN CAMPUS	14,044,642	25,531,349	2,500,816
U MICHIGAN-ANN ARBOR	25,259,093	43,806,919	15,615,762
U OF CAL-BERKELEY	34,851,292	31,235,021	9,371,631
U OF CAL-LOS ANGELES	40,911,695	35,794,160	10,652,789
U OF COLORADO AT BOULDER	11,401,379	10,054,224	0
U OF ILL URBANA CAMPUS	20,506,114	29,441,436	8,706,225
U OF KANSAS MAIN CAMPUS	7,511,582	14,202,938	1,142,922
U OF MD COLLEGE PARK CAM	20,672,297	27,350,525	5,611,842
U OF MINN MNPLS SNT PAUL	40,616,296	41,681,860	3,597,820
U OF MISSOURI-COLUMBIA	14,411,350	11,935,991	1,222,573
U OF NC AT CHAPEL HILL	13,657,181	21,959,565	1,899,578
U OF NEBRASKA-LINCOLN	9,437,708	13,111,635	3,872,270
U OF OREGON MAIN CAMPUS	5,784,385	6,103,995	299,887
U OF PITTSBG MAIN CAMPUS	19,847,286	21,717,602	6,093,542
U OF TEXAS AT AUSTIN	20,679,239	50,996,645	7,245,619
U OF VIRGINIA MAIN CAMPUS	15,367,374	13,281,243	1,637,958
U OF WISCONSIN MADISON	19,012,119	47,167,315	8,543,698
UNIVERSITY OF IOWA	7,513,719	19,685,788	3,276,549
UNIVERSITY OF WASHINGTON	29,139,264	22,351,296	1,962,048

INSTITUTION	REST AWARDS	MAND TRANS	TOTAL E&G EX
INDIANA U BLOOMINGTON	4,939,467	97,173	195,704,150
IOWA STATE U SCI & TECHN	1,357,578	0	171,065,724
MICHIGAN STATE UNIVERSITY	3,649,793	557,888	311,026,278
OHIO STATE U MAIN CAMPUS	6,089,142	777,067	364,503,173
PA STATE U MAIN CAMPUS	5,841,210	1,023,722	266,527,621
PURDUE U MAIN CAMPUS	4,054,572	87,419	250,334,399
U MICHIGAN-ANN ARBOR	13,178,388	1,635,562	413,383,651
U OF CAL-BERKELEY	9,785,087	2,782	397,141,754
U OF CAL-LOS ANGELES	10,731,119	0	545,229,825
U OF COLORADO AT BOULDER	5,257,466	21,194	129,146,089
U OF ILL URBANA CAMPUS	5,499,021	1,104,168	345,446,177
U OF KANSAS MAIN CAMPUS	1,610,905	20,645	115,813,835
U OF MD COLLEGE PARK CAM	5,782,955	0	200,864,688
U OF MINN MNPLS SNT PAUL	6,186,368	3,602,122	500,585,524
U OF MISSOURI-COLUMBIA	2,267,917	473,812	184,634,243
U OF NC AT CHAPEL HILL	6,840,703	140,519	295,034,107
U OF NEBRASKA-LINCOLN	1,915,374	802,679	150,465,946
U OF OREGON MAIN CAMPUS	2,855,247	0	80,586,026
U OF PITTSBG MAIN CAMPUS	3,123,267	440,169	231,584,727
U OF TEXAS AT AUSTIN	3,487,964	10,393,074	336,755,561
U OF VIRGINIA MAIN CAMPUS	8,433,625	37,200	159,987,702
U OF WISCONSIN MADISON	8,975,272	16,068,345	411,727,736
UNIVERSITY OF IOWA	6,277,025	2,669,599	209,490,496
UNIVERSITY OF WASHINGTON	14,568,576	123,552	379,581,312

Percentage of Expenditures for INSTRUCTION

INSTITUTION	PERCENT
INDIANA U BLOOMINGTON	0.44
IOWA STATE U SCI & TECHN	0.36
MICHIGAN STATE UNIVERSITY	0.43
OHIO STATE U MAIN CAMPUS	0.45
PA STATE U MAIN CAMPUS	0.37
PURDUE U MAIN CAMPUS	0.40
U MICHIGAN-ANN ARBOR	0.38
U OF CAL-BERKELEY	0.35
U OF CAL-LOS ANGELES	0.39
U OF COLORADO AT BOULDER	0.40
U OF ILL URBANA CAMPUS	0.29
U OF KANSAS MAIN CAMPUS	0.43
U OF MD COLLEGE PARK CAM	0.39
U OF MINN MNPLS SNT PAUL	0.38
U OF MISSOURI-COLUMBIA	0.41
U OF NC AT CHAPEL HILL	0.41
U OF NEBRASKA-LINCOLN	0.33
U OF OREGON MAIN CAMPUS	0.46
U OF PITTSBG MAIN CAMPUS	0.41
U OF TEXAS AT AUSTIN	0.35
U OF VIRGINIA MAIN CAMPUS	0.38
U OF WISCONSIN MADISON	0.32
UNIVERSITY OF IOWA	0.45
UNIVERSITY OF WASHINGTON	0.38

Instructional Expenditures per Full-Time Faculty and FTE Student

INSTITUTION	PERFACULTY	PERFTE
INDIANA U BLOOMINGTON	69781.84	3000.95
IOWA STATE U SCI & TECHN	46982.32	2800.54
MICHIGAN STATE UNIVERSITY	73176.87	3453.96
OHIO STATE U MAIN CAMPUS	91765.32	3427.63
PA STATE U MAIN CAMPUS	65892.21	2947.28
PURDUE U MAIN CAMPUS	72320.34	3310.64
U MICHIGAN-ANN ARBOR	92448.19	4786.58
U OF CAL-BERKELEY	95454.33	4822.10
U OF CAL-LOS ANGELES	139128.50	6492.98
U OF COLORADO AT BOULDER	58018.25	2491.89
U OF ILL URBANA CAMPUS	48997.53	3082.47
U OF KANSAS MAIN CAMPUS	49385.16	2468.03
U OF MD COLLEGE PARK CAM	58412.66	2509.28
U OF MINN MNPLS SNT PAUL	106439.30	3995.23
U OF MISSOURI-COLUMBIA	86266.86	3377.45
U OF NC AT CHAPEL HILL	109946.20	6183.51
U OF NEBRASKA-LINCOLN	46565.02	2366.89
U OF OREGON MAIN CAMPUS	60127.87	2442.81
U OF PITTSBG MAIN CAMPUS	74159.33	4489.11
U OF TEXAS AT AUSTIN	63213.47	2702.42
U OF VIRGINIA MAIN CAMPUS	64116.82	3861.09
U OF WISCONSIN MADISON	90899.82	3515.48
UNIVERSITY OF IOWA	92413.08	4071.76
UNIVERSITY OF WASHINGTON	89905.50	4853.54

Research Expenditures per Full-Time Faculty and FTE Student

INSTITUTION	PERFACULTY	PERFTE
INDIANA U BLOOMINGTON	15327.05	659.14
IOWA STATE U SCI & TECHN	30928.57	1843.60
MICHIGAN STATE UNIVERSITY	31819.30	1501.88
OHIO STATE U MAIN CAMPUS	27011.40	1008.93
PA STATE U MAIN CAMPUS	33903.25	1516.45
PURDUE U MAIN CAMPUS	42181.29	1930.95
U MICHIGAN-ANN ARBOR	58992.42	3055.66
U OF CAL-BERKELEY	62006.57	3132.41
U OF CAL-LOS ANGELES	72363.94	3377.15
U OF COLORADO AT BOULDER	30969.73	1330.15
U OF ILL URBANA CAMPUS	43635.27	2745.13
U OF KANSAS MAIN CAMPUS	18219.25	910.51
U OF MD COLLEGE PARK CAM	33780.81	1451.15
U OF MINN MNPLS SNT PAUL	57310.62	2151.17
U OF MISSOURI-COLUMBIA	35903.97	1405.68
U OF NC AT CHAPEL HILL	51909.46	2919.46
U OF NEBRASKA-LINCOLN	31477.57	1600.00
U OF OREGON MAIN CAMPUS	15655.28	636.02
U OF PITTSBG MAIN CAMPUS	29836.65	1806.11
U OF TEXAS AT AUSTIN	40711.63	1740.45
U OF VIRGINIA MAIN CAMPUS	30343.01	1827.24
U OF WISCONSIN MADISON	101003.00	3906.21
UNIVERSITY OF IOWA	34183.53	1506.14
UNIVERSITY OF WASHINGTON	73688.26	3978.06

TOTAL EDUCATIONAL & GENERAL EXPENDITURES PER FULL-TIME FACULTY AND STUDENTS

INSTITUTION	PERFACULTY	PERSTUDENT
INDIANA U BLOOMINGTON	158336.70	7156.59
IOWA STATE U SCI & TECHN	128911.60	7731.09
MICHIGAN STATE UNIVERSITY	170987.50	9100.99
OHIO STATE U MAIN CAMPUS	202501.70	8447.15
PA STATE U MAIN CAMPUS	178160.20	8425.62
PURDUE U MAIN CAMPUS	179837.90	8680.11
U MICHIGAN-ANN ARBOR	244172.30	13405.88
U OF CAL-BERKELEY	272949.60	14763.63
U OF CAL-LOS ANGELES	357527.80	17099.35
U OF COLORADO AT BOULDER	144945.10	6560.30
U OF ILL URBANA CAMPUS	167043.60	10996.22
U OF KANSAS MAIN CAMPUS	115352.40	6355.72
U OF MD COLLEGE PARK CAM	151253.50	7406.24
U OF MINN MNPLS SNT PAUL	276872.50	12684.29
U OF MISSOURI-COLUMBIA	209811.60	8863.01
U OF NC AT CHAPEL HILL	270922.10	15862.90
U OF NEBRASKA-LINCOLN	140360.00	7686.25
U OF OREGON MAIN CAMPUS	130609.40	6093.00
U OF PITTSBG MAIN CAMPUS	180221.60	13444.69
U OF TEXAS AT AUSTIN	178366.30	7983.58
U OF VIRGINIA MAIN CAMPUS	168585.60	10322.45
U OF WISCONSIN MADISON	285723.60	11681.54
UNIVERSITY OF IOWA	205382.80	9462.08
UNIVERSITY OF WASHINGTON	236646.70	14318.42